

ABSTRACT OF DISLCOSURE

A micro-dispenser for dispensing predetermined amounts of fluids under the control of a controller. The micro-dispenser comprises a base and a high-density array of tube assemblies. The base, having a plurality of holes, is electrically connected to the controller. The tube assemblies, pre-filled with predetermined fluids, are detachably disposed in the holes and separately electrically connected to the base. The tube assemblies dispense the fluids through the base under the control of the controller. The tube assemblies are replaceable.